

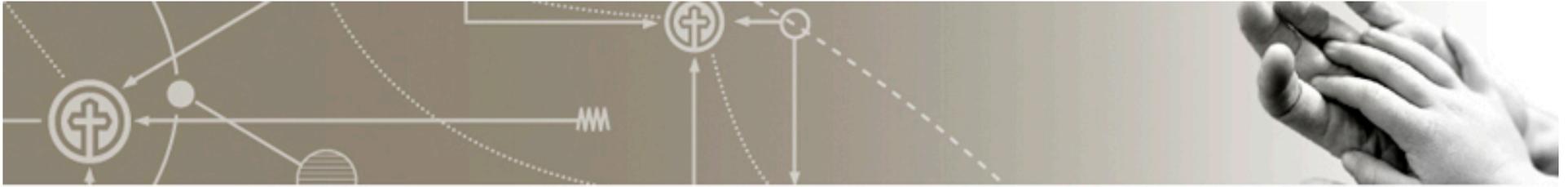


# Seton's Perinatal Safety Project

Texas Senate Committee on Health and  
Human Services

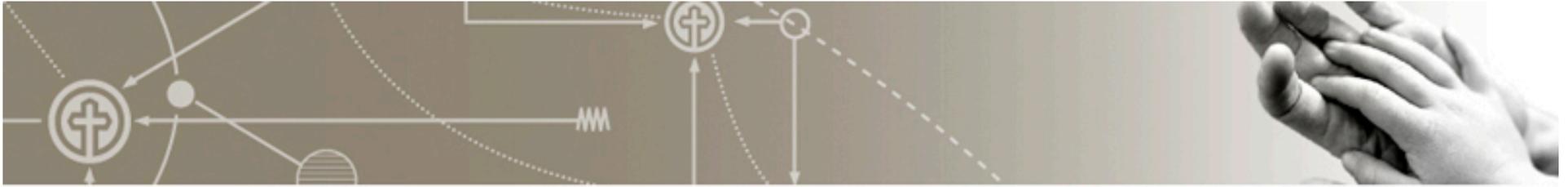
April 15<sup>th</sup>, 2010

**John Hellerstedt, MD**



## Seton's Journey to Zero Preventable Harm

- Priorities for Action
  - Mortality reduction in the Intensive Care Unit
  - Peri-operative Safety
  - Falls and falls injuries
  - Skin pressure ulcers
  - Medication safety
  - **Birth trauma**
  - Hospital-acquired infection



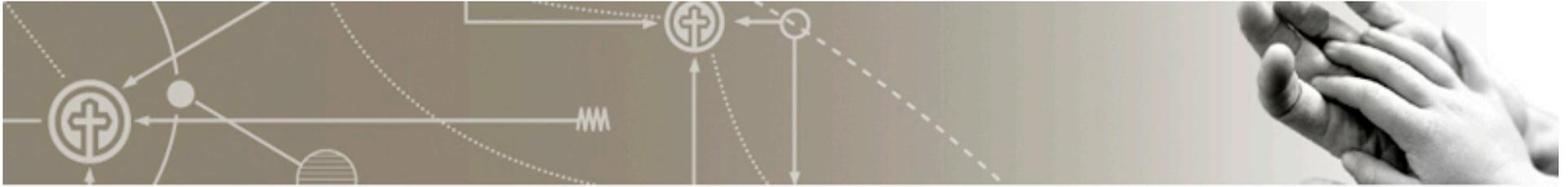
## Ascension Health HANDS Program

### Goal: Improving Clinical Aspects of Care

**HANDS = Handle All Neonatal Deliveries Safely**

HANDS Elements—

- Standardize Electronic Fetal Monitoring
- Labor Induction & Augmentation Bundles (Oxytocin Use)
- Improved Communication: SBAR Tool (Situation-Background-Assessment-Recommendation)
- Simulation Training for Clinical Teams (Doctors & Nurses)

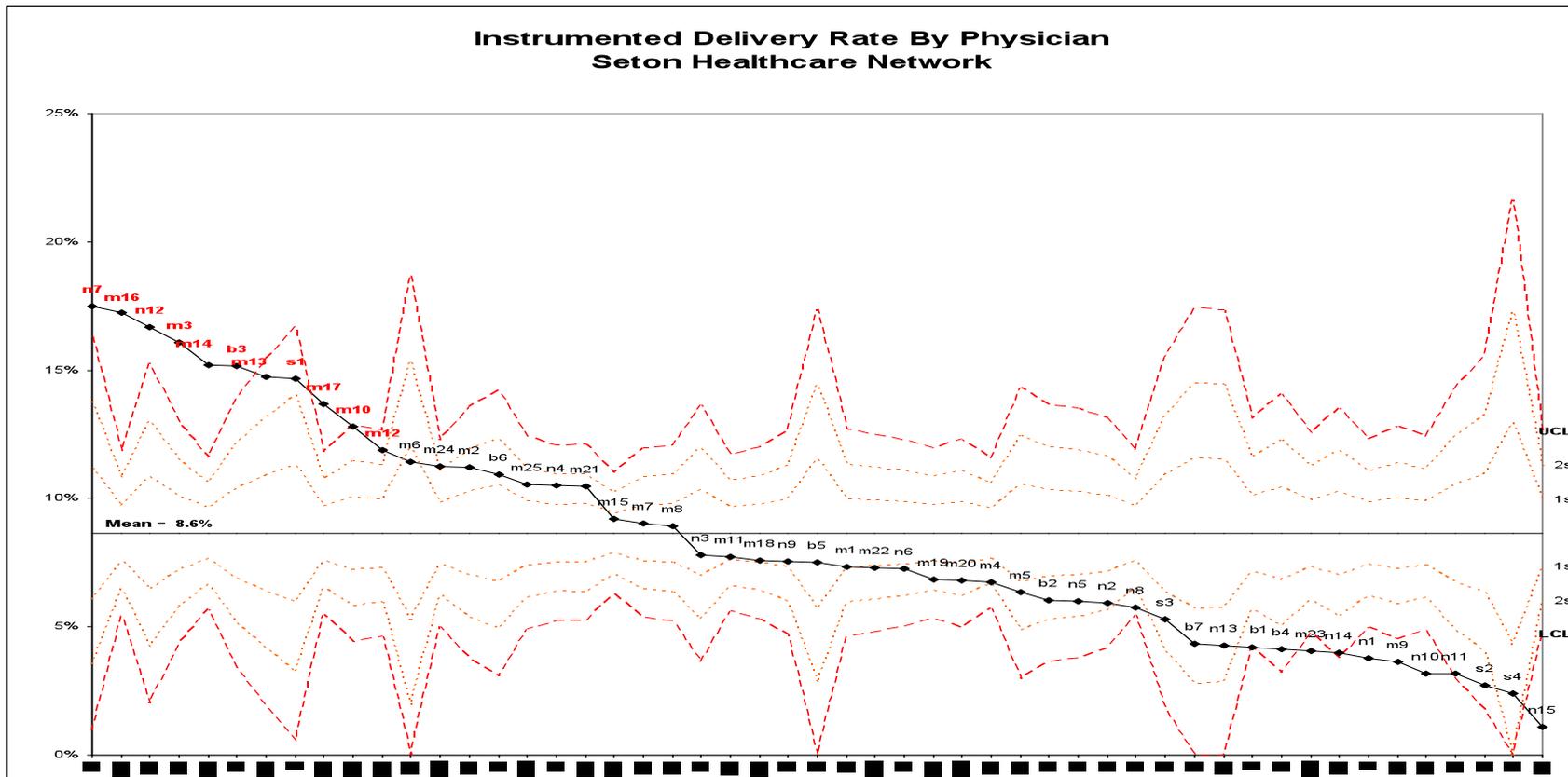


## Seton's Innovations

- Standardized order sets across all 6 hospitals that deliver obstetrical services
- Minimization of obstetrical intervention (reduced use of vacuum and forceps)
- Adoption of NICHD 'common language' and joint strip review (National Institute for Child Health & Human Development)
- Avoidance of iatrogenic (physician or therapy induced) prematurity
- Shoulder dystocia ("stuck shoulder") team work program
- Navigated C-section program
- Focus 3<sup>th</sup> and 4<sup>th</sup> degree episiotomy lacerations

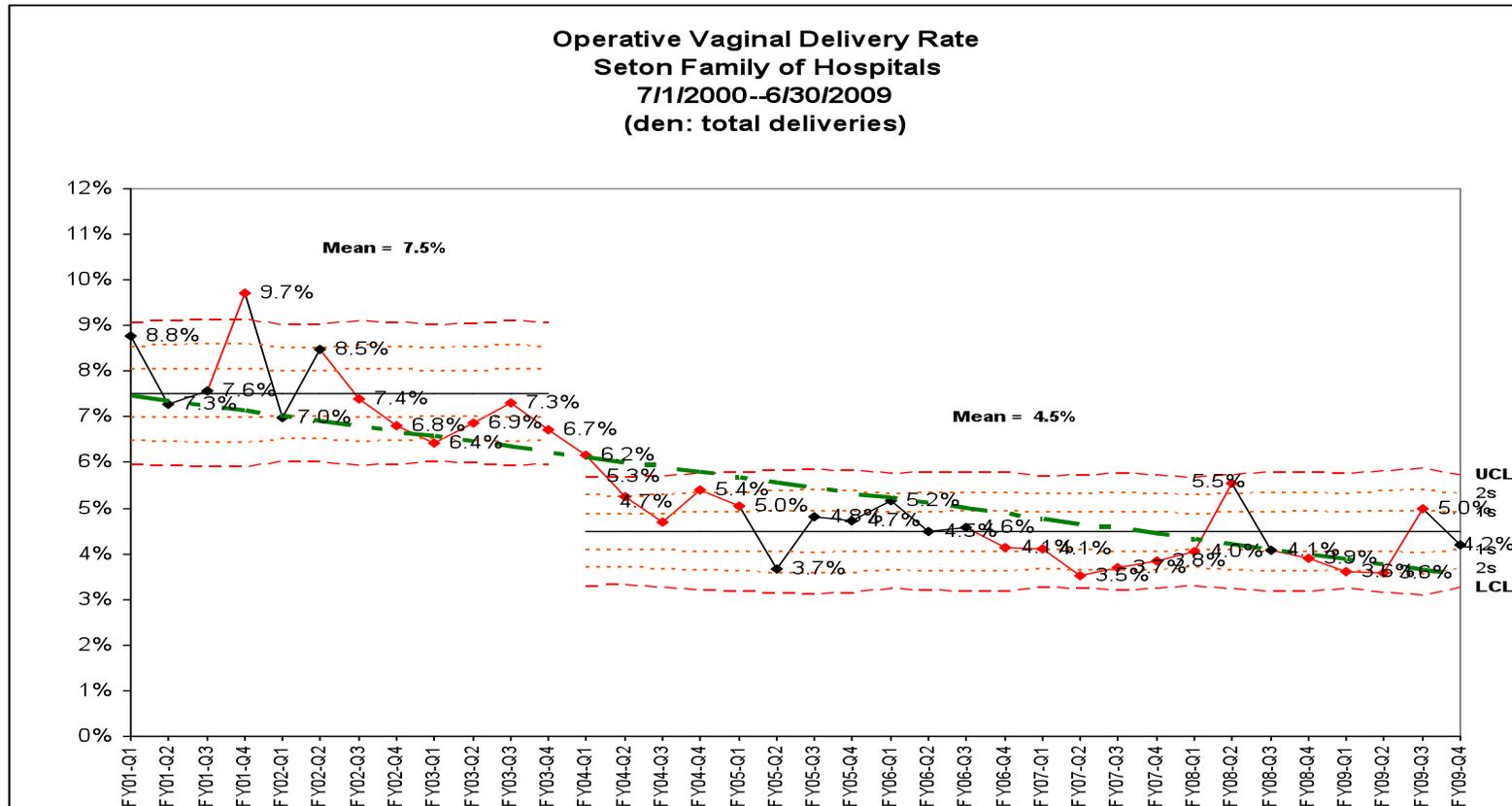


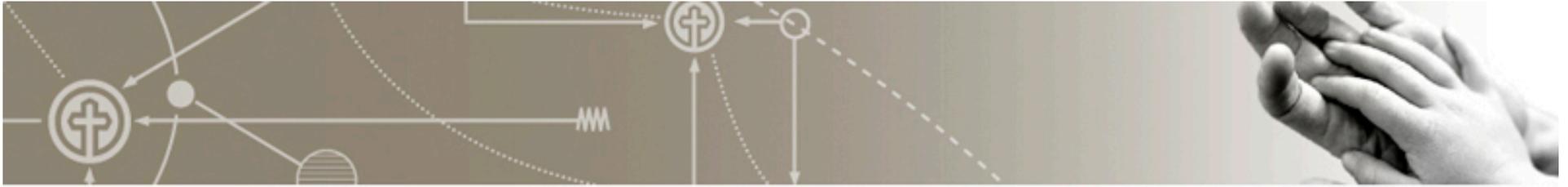
# Instrumented Delivery (Vacuum/Forceps) Baseline



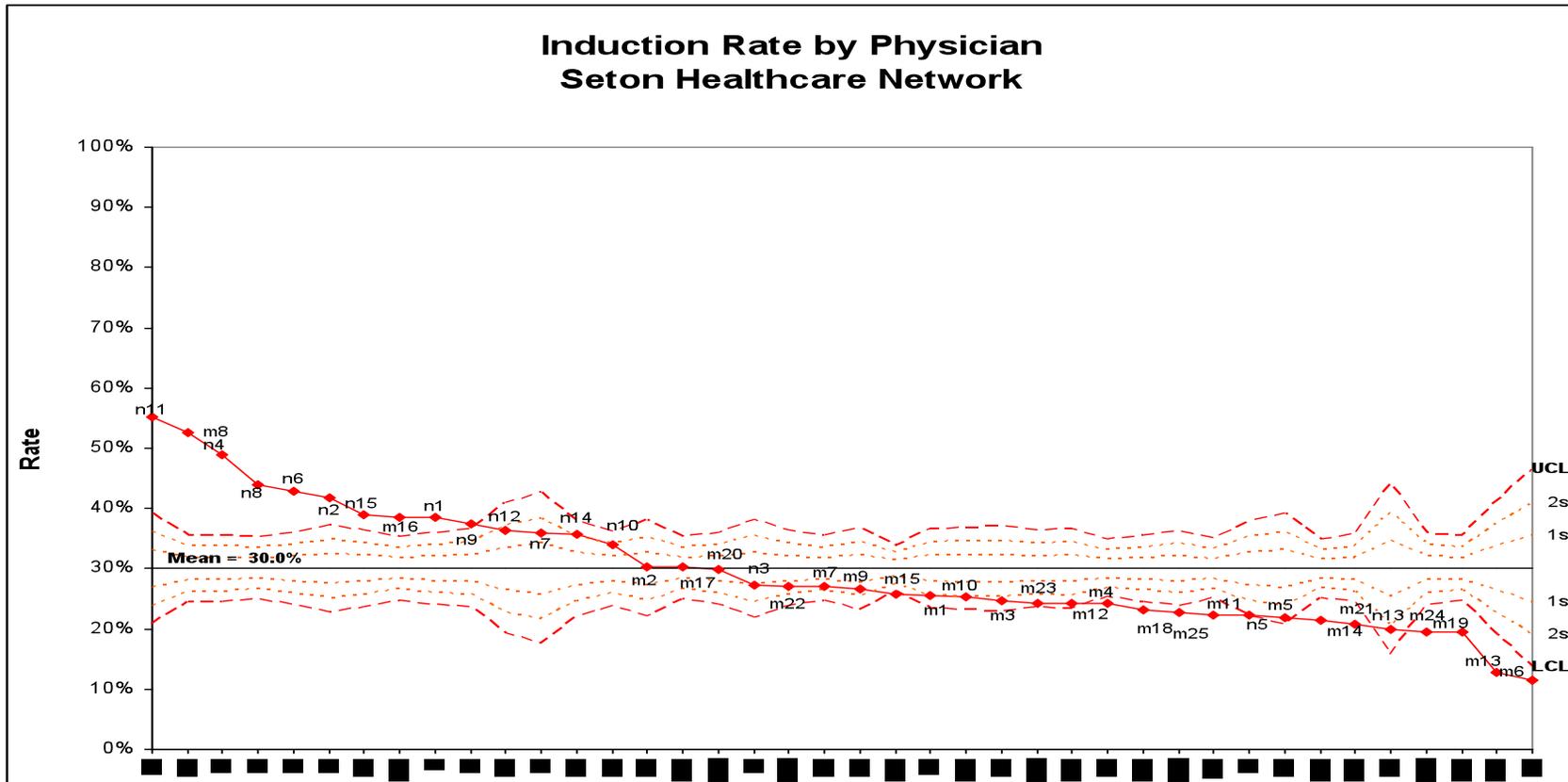


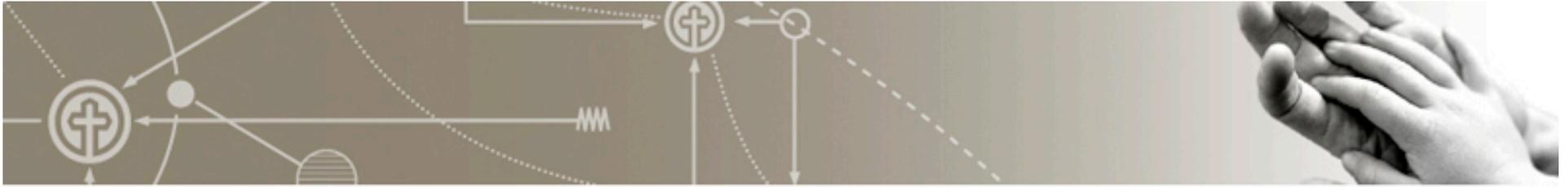
# Instrumented Delivery Rate Over Time





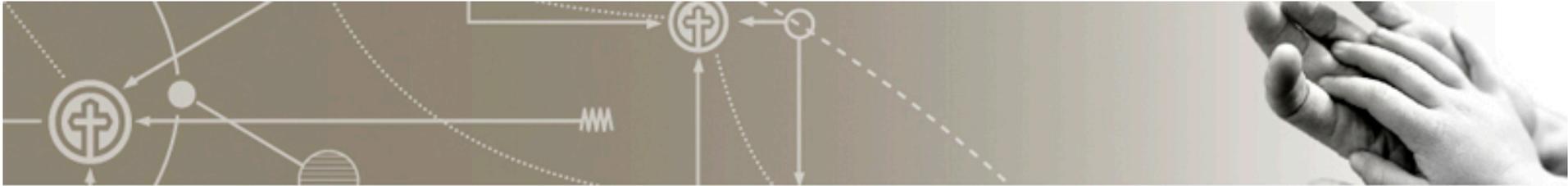
# Induction Rates by Physician





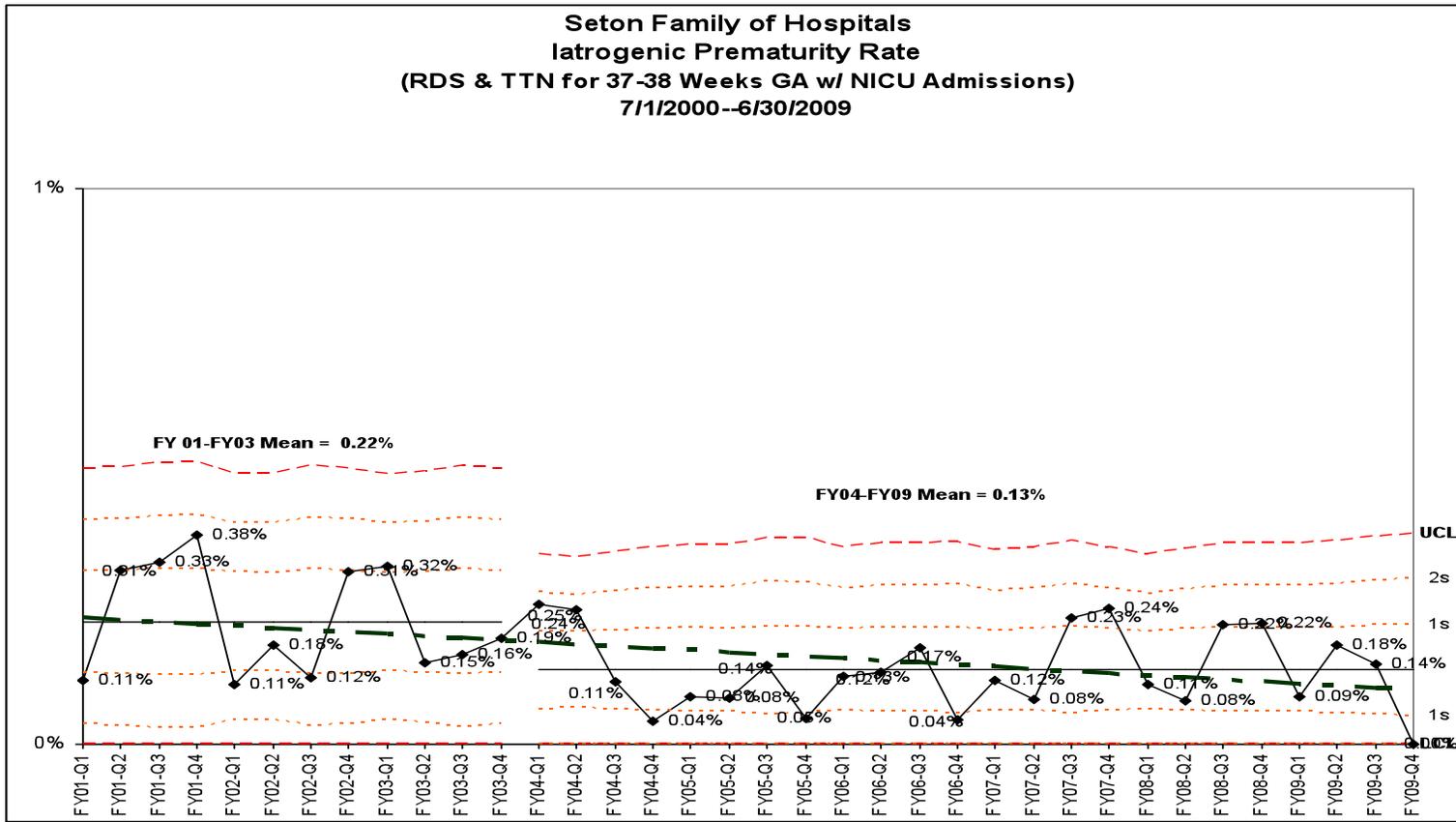
## More data points

- No elective induction before 39 weeks in 4 ½ years
- 100% Oxytocin Bundle compliance over the last 4 ½ years



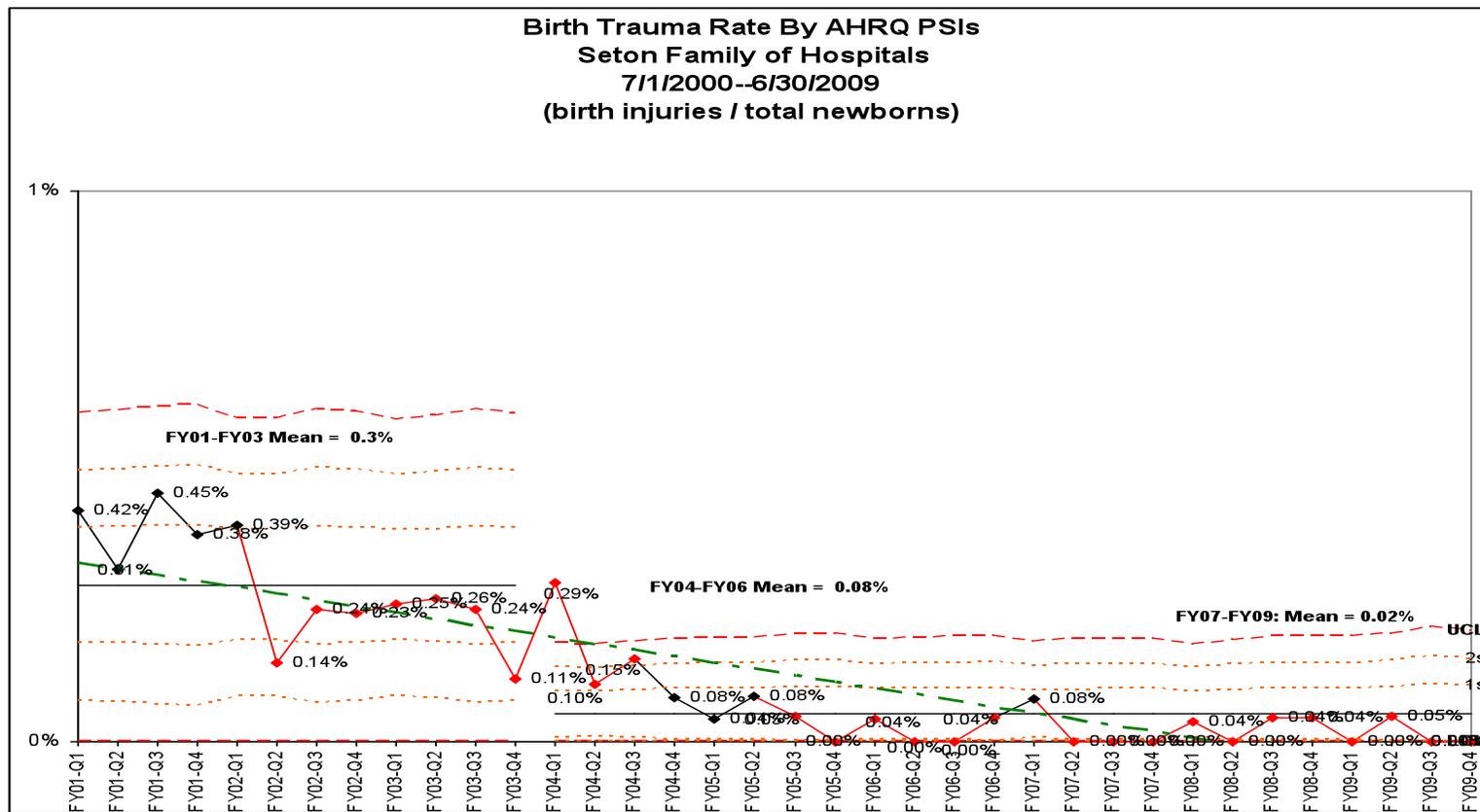
## Iatrogenic Prematurity Rate

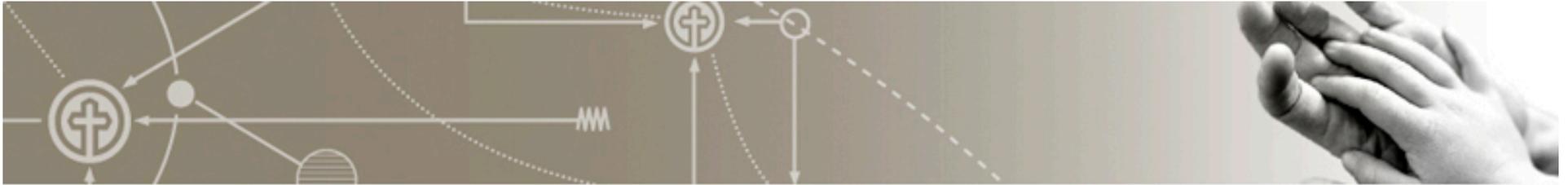
**Declined from 2.2 per 1,000 to 1.3 per 1,000 live births; or from 22 cases per year to 13 cases per year for Seton.**





## Network Birth Trauma Rate Declined from 3 per 1,000 to 0.2 per 1,000 live births; or from 29 cases a year to 2 cases a year for Seton.





## Financial (NICU) Implications of Birth Trauma Cases

<u>Payor</u>	<u>Year(s)</u>	<u>Billed Amount</u>	<u># of Cases</u>
<b>HMO/PPO</b>	FY01-03	\$1,967,323.07	46 (15.33/yr)
	FY04	\$73,901.00	7 (7.0/yr)
	FY05-07	\$6,203.00	4 (1.33/yr)
	FY08-09	\$67,140.25	2 (1.0/yr)
<b>Medicaid</b>	FY01-03	\$1,291,842.00	31 (10.33/yr)
	FY04	\$31,812.75	2 (2.0/yr)
	FY05-07	\$32,765.15	3 (1.0/yr)
	FY08-09	\$25,934.37	1 (1.0/yr)
<b>Blue Cross</b>	FY01-03	\$1,109,342.56	8 (2.67/yr)
	FY04	\$0	0 (0/yr)
	FY05-07	\$28,305.50	2 (1/yr)
	FY08-09	\$0	0 (0/yr)



## Questions?

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